



0590
0702

RAW SEQUENCE LISTING ERROR REPORT

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Application Serial Number: 10/066,506
Source: OLPE
Date Processed by STIC: 6-14-02

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FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

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Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

- Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:
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Or
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
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Revised 01/29/2002

Does Not Comply
Corrected Diskette Needed



OIKE

RAW SEQUENCE LISTING

DATE: 06/14/2002

PATENT APPLICATION: US/10/066,506

TIME: 08:12:55

Input Set : A:\Sequence.txt

Output Set: N:\CRF3\06142002\J066506.raw

W--> 3 /29
 7 <110> APPLICANT: Grogan, Case C.
 8 Hevey, Michael C.
 9 Schmaljohn, Alan, L.
 11 <120> TITLE OF INVENTION: Chimeric Filovirus Glycoprotein
 13 <130> FILE REFERENCE: 003/243/SAP
 15 <140> CURRENT APPLICATION NUMBER: 10/066,506
 17 <141> CURRENT FILING DATE: 2002-01-31
 19 <150> PRIOR APPLICATION NUMBER: 60/267,522
 21 <151> PRIOR FILING DATE: 2001-01-31
 23 <160> NUMBER OF SEQ ID NOS: 30
 25 <170> SOFTWARE: Apple Macintosh Microsoft Word 6.0

ERRORED SEQUENCES

27 <210> SEQ ID NO: 1
 28 <211> LENGTH: 2252
 29 <212> TYPE: DNA
 30 <213> ORGANISM: Artificial Sequence
 W--> 31 <220> FEATURE:
 32 <223> OTHER INFORMATION: [chimeric protein]
 W--> 33 <400> SEQUENCE: 1
 35 atgggcggtta caggaatatt gcagttacct cgtgatcgat tcaagaggac 50
 36 atcattotitt ctttgggtaa ttatcctttt ccaaagaaca ttttccatcc 100
 37 cacttgaggt catccacaat agcacattac aggttagtga tgtcgacaaa 150
 38 ctagtttgtc gtgacaaact gtcacccaca aatcaattga gatcagttgg 200
 39 actgaatctc gaagggaatg gactggcaac tgacgtgcca totgcaacta 250
 40 aaagatgggg cttcaggtcc ggtgtccac caaaggtggt caattatgaa 300
 41 gctggtgaat gggctgaaaa ctgctacaat cttgaaatca aaaaacctga 350
 42 cgggagtgag tgtctaccag cagcgccaga cgggattcgg ggcttcccc 400
 43 ggtgcgggta tgtgcacaaa gtatcaggaa cgggaccgtg tgccggagac 450
 44 tttgccttcc ataaagaggg tgctttcttc ctgtatgac gacttgcttc 500
 45 cacagttatc taccgaggaa cgactttcgc tgaaggtgtc gttgcatttc 550
 46 tgatactgcc ccaagctaag aaggacttct tcagctcaca ccccttgaga 600
 47 gagccggtca atgcaacgga ggaccctct agtggctact attctaccac 650
 48 aattagatat caggctaccg gttttggaac caatgagaca gactacttgt 700
 E--> 49 tcgaggttga caatttgacc tacgtccaac ttgaatcaag attcacacca 850
 E--> 50 cagttttctgc tccagctgaa tgagacaata tatacaagt ggaaaaggag 900
 E--> 51 caataccacg ggaaaactaa tttggaaggt caaccccgaa attgatacaa 950
 E--> 52 caatcgggga gtgggccttc tgggaaacta aaaaaaacct cactagaaaa 1000
 E--> 53 attcgcagtg aagagttgtc tttcacagtt gtatcaaacg gagccaaaaa 1050
 E--> 54 catcagtggt cagagtcggg cgcgaacttc ttccgaccca gggaccaaca 1100

this is not a protein,
 need to list any organisms
 that make up a chimera as
 source of genetic material

need to
re-number

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DATE: 06/14/2002

TIME: 08:12:55

Input Set : A:\Sequence.txt

Output Set: N:\CRF3\06142002\J066506.raw

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E--> 55 caacaactga agaccacaaa atcatggcct cagaaaattc ctctgcaatg 1150
E--> 56 gttcaagtgc acagtcaagg aagggaagct gcagtgtcgc atctaacaac 1200
E--> 57 ccttgccaca atctccacga gtccccaatc cctcacaacc aaaccaggtc 1250
E--> 58 cggacaacag cacccataat acaccctgtg ataaacttga catctctgag 1300
E--> 59 gcaactcaag ttgaacaaca tcaccgcaga acagacaacg acagcacagc 1350
E--> 60 ctccgacact ccctctgcca cgaccgcagc cggacccccca aaagcagaga 1400
E--> 61 acaccaacac gagcaagagc actgacttcc tggacccccgc caccacaaca 1450
E--> 62 agtccccaaa accacagcga gaccgctggc aacaacaaca ctcatcacca 1500
E--> 63 agataccgga gaagagagtg ccagcagcgg gaagctaggc ttaattacca 1550
E--> 64 atactattgc tggagtgcga ggactgatca caggcggggag aagaactcga 1600
E--> 65 cgatcgatcc tctggaggga aggcgacatg ttcccttttc tggatggggtt 1650
E--> 66 aataaatgct ccaattgatt ttgacccagt tccaaataca aaaacaatct 1700
E--> 67 ttgatgaatc ctctagtctt ggtgcctcgg ctgaggaaga tcaacatgcc 1850
E--> 68 tcccccaata ttagtttaac tttatcttat tttcctaata taaatgagaa 1900
E--> 69 cactgcctac tctggagaaa atgagaatga ttgtgatgca gagttaagaa 1950
E--> 70 tttggagcgt tcaggaggat gacctggccg cagggtcagc ttggataccg 2000
E--> 71 ttttttggcc ctggaattga aggactttac actgctgttt taattaaaaa 2050
E--> 72 tcaaaacaat ttggtctgca ggttgaggcg tctagccaat caaactgcc 2100
E--> 73 aatccttgga actcttattg agagtcacaa ctgaggaaag aacattctcc 2150
E--> 74 ttaatcaata gacatgctat tgactttcta ctcacaagat ggggaggaac 2200
E--> 75 atgcaaagtg cttggacctg attgttgcac cgggatagaa gacttgtcca 2250
E--> 76 aaaatatttc agagcaaatt gaccaaatta aaaaggacga acaaaaagag 2300
E--> 77 gggactgggtt ggggtctggg tggtaaattg tggacatccg actggggtgt 2350
E--> 78 tcttactaac ttgggcattt tgctactatt atccatagct gtcttgattg 2400
E--> 79 ctctatcctg tatttgtcgt atctttacta aatatatcgg ataacggaat 2450
E--> 80 tc 2452

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471 <210> SEQ ID NO: 6

472 <211> LENGTH: 681

473 <212> TYPE: PRT

474 <213> ORGANISM: Artificial Sequence

W--> 475 <220> FEATURE:

476 <223> OTHER INFORMATION: chimeric protein

W--> 477 <400> SEQUENCE: 6

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480 Met Lys Thr Thr Cys Phe Leu Ile Ser Leu
481 1 5 10
482 Ile Leu Ile Gln Gly Thr Lys Asn Leu Pro
483 15 20
484 Ile Leu Glu Ile Ala Ser Asn Asn Gln Pro
485 25 30
486 Gln Asn Val Asp Ser Val Cys Ser Gly Thr
487 35 40
488 Leu Gln Lys Thr Glu Asp Val His Leu Met
489 45 50
490 Gly Phe Thr Leu Ser Gly Gln Lys Val Ala
491 55 60
492 Asp Ser Pro Leu Glu Ala Ser Lys Arg Trp
493 65 70
494 Ala Phe Arg Thr Gly Val Pro Pro Lys Asn
495 75 80

```

List the organisms that make up the chimera as the source of the genetic material.

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```

496 Val Glu Tyr Thr Glu Gly Glu Glu Ala Lys
497      85      90
498 Thr Cys Tyr Asn Ile Ser Val Thr Asp Pro
499      95     100
500 Ser Gly Lys Ser Leu Leu Asp Pro Pro
501     105     110
502 Thr Asn Ile Arg Asp Tyr Pro Lys Cys Lys
503     115     120
504 Thr Ile His His Ile Gln Gly Gln Asn Pro
505     125     130
506 His Ala Gln Gly Ile Ala Leu His Leu Trp
507     135     140
508 Gly Ala Phe Phe Leu Tyr Asp Arg Ile Ala
509     145     150
510 Ser Thr Thr Met Tyr Arg Gly Lys Val Phe
511     155     160
512 Thr Glu Gly Asn Ile Ala Ala Met Ile Val
513     165     170
514 Asn Lys Thr Val His Lys Met Ile Phe Ser
515     175     180
516 Arg Gln Gly Gln Gly Tyr Arg His Met Asn
517     185     190
518 Leu Thr Ser Thr Asn Lys Tyr Trp Thr Ser
519     195     200
520 Ser Asn Gly Thr Gln Thr Asn Asp Thr Gly
521     205     210
522 Cys Phe Gly Ala Leu Gln Glu Tyr Asn Ser
523     215     220
524 Thr Lys Asn Gln Thr Cys Ala Pro Ser Lys
525     225     230
526 Ile Pro Pro Pro Leu Pro Thr Ala Arg Pro
527     235     240
528 Glu Ile Lys Leu Thr Ser Thr Pro Thr Asp
529     245     250
530 Ala Thr Lys Leu Asn Thr Thr Asp Pro Ser
531     255     260
532 Ser Asp Asp Glu Asp Leu Ala Thr Ser Gly
533     265     270
534 Ser Gly Ser Gly Glu Arg Glu Pro His Thr
535     275     280
536 Thr Ser Asp Ala Val Thr Lys Gln Gly Leu
537     285     290
538 Ser Ser Thr Met Pro Pro Thr Pro Ser Pro
539     295     300
540 Gln Pro Ser Thr Pro Gln Gln Gly Gly Asn
541     305     310
542 Asn Thr Asn His Ser Gln Asp Ala Val Thr
543     315     320
544 Glu Leu Asp Lys Asn Asn Thr Thr Ala Gln

```

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| | | | | |
|----------|-----------------|-------------------------|--|-----|
| 545 | | 325 | | 330 |
| 546 | Pro Ser Met Pro | Pro His Asn Thr Thr Thr | | |
| 547 | | 335 | | 340 |
| 548 | Ile Ser Thr Asn | Asn Thr Ser Lys His Asn | | |
| 549 | | 345 | | 350 |
| 550 | Phe Ser Thr Leu | Ser Ala Pro Leu Gln Asn | | |
| 551 | | 355 | | 360 |
| 552 | Thr Thr Asn Asp | Asn Thr Gln Ser Thr Ile | | |
| 553 | | 365 | | 370 |
| 554 | Thr Glu Asn Glu | Gln Thr Ser Ala Pro Ser | | |
| 555 | | 375 | | 380 |
| 556 | Ile Thr Thr Leu | Pro Pro Thr Gly Asn Pro | | |
| 557 | | 385 | | 390 |
| 558 | Thr Thr Ala Lys | Ser Thr Ser Ser Lys Lys | | |
| 559 | | 395 | | 400 |
| 560 | Gly Pro Ala Thr | Thr Ala Pro Asn Thr Thr | | |
| 561 | | 405 | | 410 |
| 562 | Asn Glu His Phe | Thr Ser Pro Pro Pro Thr | | |
| 563 | | 415 | | 420 |
| 564 | Pro Ser Ser Thr | Ala Gln His Leu Val Tyr | | |
| 565 | | 425 | | 430 |
| 566 | Phe Arg Arg Lys | Arg Ser Ile Phe Trp Lys | | |
| 567 | | 435 | | 440 |
| 568 | Glu Gly Asp Ile | Phe Pro Phe Leu Asp Gly | | |
| E--> 569 | | 455 | | 450 |
| 570 | Leu Ile Asn Thr | Glu Ile Asp Phe Asp Pro | | |
| E--> 571 | | 465 | | 460 |
| 572 | Ile Pro Asn Thr | Glu Thr Ile Phe Asp Glu | | |
| E--> 573 | | 475 | | 470 |
| 574 | Ser Pro Ser Phe | Asn Thr Ser Thr Asn Glu | | |
| E--> 575 | | 485 | | 480 |
| 576 | Glu Gln His Thr | Pro Pro Asn Ile Ser Leu | | |
| E--> 577 | | 495 | | 490 |
| 578 | Thr Phe Ser Tyr | Phe Pro Asp Lys Asn Gly | | |
| E--> 579 | | 505 | | 500 |
| 580 | Asp Thr Ala Tyr | Ser Gly Glu Asn Glu Asn | | |
| E--> 581 | | 515 | | 510 |
| 582 | Asp Cys Asp Ala | Glu Leu Arg Ile Trp Ser | | |
| E--> 583 | | 525 | | 520 |
| 584 | Val Gln Glu Asp | Asp Leu Ala Ala Gly Leu | | |
| E--> 585 | | 535 | | 530 |
| 586 | Ser Trp Ile Pro | Phe Phe Gly Pro Gly Ile | | |
| E--> 587 | | 545 | | 540 |
| 588 | Glu Gly Leu Tyr | Thr Ala Gly Leu Ile Lys | | |
| E--> 589 | | 555 | | 550 |
| 590 | Asn Gln Asn Asn | Leu Val Cys Arg Leu Arg | | |
| E--> 591 | | 565 | | 560 |
| 592 | Arg Leu Ala Asn | Gln Thr Ala Lys Ser Leu | | |
| E--> 593 | | 575 | | 570 |

need to
re-number

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Input Set : A:\Sequ nce.txt

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```
594 Glu Leu Leu Leu Arg Val Thr Thr Glu Glu
E--> 595 585 580
596 Arg Thr Phe Ser Leu Ile Asn Arg His Ala
E--> 597 595 590
598 Ile Asp Phe Leu Leu Thr Arg Trp Gly Gly
E--> 599 605 600
600 Thr Cys Lys Val Leu Gly Pro Asp Cys Cys
E--> 601 615 610
602 Ile Gly Ile Glu Asp Leu Ser Lys Asn Ile
E--> 603 625 620
604 Ser Glu Gln Ile Asp Lys Ile Arg Lys Asp
E--> 605 635 630
606 Glu Gln Lys Glu Glu Thr Gly Trp Gly Leu
E--> 607 645 640
608 Gly Gly Lys Trp Trp Thr Ser Asp Trp Gly
E--> 609 655 650
610 Val Leu Thr Asn Leu Gly Ile Leu Leu Leu
E--> 611 665 660
612 Leu Ser Ile Ala Val Leu Ile Ala Leu Ser
E--> 613 675 670
614 Cys Ile Cys Arg Ile Phe Thr Lys Tyr Ile
E--> 615 685 680
616 Gly
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VERIFICATION SUMMARY

DATE: 06/14/2002

PATENT APPLICATION: US/10/066,506

TIME: 08:12:56

Input Set : A:\Sequence.txt

Output Set: N:\CRF3\06142002\J066506.raw

L:3 M:259 W: Allowed number of lines exceeded, (1) GENERAL INFORMATION:
L:31 M:283 W: Missing Blank Line separator, <220> field identifier
L:33 M:283 W: Missing Blank Line separator, <400> field identifier
L:49 M:254 E: No. of Bases conflict, LENGTH:Input:850 Counted:750 SEQ:1
M:254 Repeated in SeqNo=1
L:87 M:283 W: Missing Blank Line separator, <220> field identifier
L:89 M:283 W: Missing Blank Line separator, <400> field identifier
L:246 M:283 W: Missing Blank Line separator, <220> field identifier
L:248 M:283 W: Missing Blank Line separator, <400> field identifier
L:292 M:283 W: Missing Blank Line separator, <220> field identifier
L:294 M:283 W: Missing Blank Line separator, <400> field identifier
L:424 M:283 W: Missing Blank Line separator, <220> field identifier
L:426 M:283 W: Missing Blank Line separator, <400> field identifier
L:475 M:283 W: Missing Blank Line separator, <220> field identifier
L:477 M:283 W: Missing Blank Line separator, <400> field identifier
L:569 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:6
M:332 Repeated in SeqNo=6
L:622 M:283 W: Missing Blank Line separator, <220> field identifier
L:624 M:283 W: Missing Blank Line separator, <400> field identifier
L:673 M:283 W: Missing Blank Line separator, <220> field identifier
L:675 M:283 W: Missing Blank Line separator, <400> field identifier
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L:822 M:283 W: Missing Blank Line separator, <400> field identifier
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L:1474 M:283 W: Missing Blank Line separator, <400> field identifier
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Input Set : A:\Sequence.txt

Output Set: N:\CRF3\06142002\J066506.raw

L:1484 M:283 W: Missing Blank Line separator, <400> field identifier
L:1492 M:283 W: Missing Blank Line separator, <220> field identifier
L:1494 M:283 W: Missing Blank Line separator, <400> field identifier
L:1502 M:283 W: Missing Blank Line separator, <220> field identifier
L:1504 M:283 W: Missing Blank Line separator, <400> field identifier
L:1512 M:283 W: Missing Blank Line separator, <220> field identifier
L:1514 M:283 W: Missing Blank Line separator, <400> field identifier